



FIGURE 7A

DAF-16 nucleotide

1 ctcaaagcca atcaactcta ctcaacttttc' ttcagaacct taacttttttg tgtcactttc
61 cccaaaaacc gttcaagctg ctgccttcac tctcatcccc tctctttact ctttctttct
121 cgtccgctac tactgtatct tctggacatc tacctgtata cacaccagtg gccagtcac
181 tgccattaca atttcatcaa ttgacacttc ttcaacaaca accgccgtcc tcattcactc
241 ccgattcttc ctcatcctca acatcgctcg ctttggctga aattcccga gacgttatga
301 tggagatgct ggtagatcag ggaactgatg catcgtcac cgcctccacg tccacctcat
361 ctgtttcgag attcggagcg gacacgttca tgaatacacc ggatgatgtg atgatgaatg
421 atgatatgga accgattcct cgtgatcggg gcaatacgtg gccaatgcgt aggcgcgaac
481 tcgaaccacc actcaactcg agtcccatta ttcatgaaca aattcctgaa gaagatgctg
541 acctatacgg gagcaatgag caatgtggac agctcggcgg agcatcttca aacgggtcga
601 cagcaatgct tcatactcca gatggaagca atttcatca gacatcgttt ctttcggaaa
661 tgtccgaatc gccagacgat accgtatcgg gaaaaaagac aacgaccaga cggaacgctt
721 ggggaaatat gtcatatgct gaacttatca ctacagccat tatggctagt ccagagaaac
781 ggttaactct tgcacaagtt tacgaatgga tgggtccagaa tgttccatac ttcagggata
841 agggagattc gaacagttca gctggatgga agaactcgat ccgtcacaat ctgtctcttc
901 attctcgttt catgcgaatt cagaatgaag gagccggaaa gagctcgtgg tgggttatta
961 atccagatgc aaagccagga aggaatccac ggcgtacacg tgaacgatcc aatactattg
1021 agacgactac aaaggctcaa ctcgaaaaat ctgcgcgcgg agccaagaag aggataaagg
1081 agagagcatt gatgggctcc cttcactcga cacttaatgg aaattcgatt gccggatcga
1141 ttcaaacgat ttctcacgat ttgtatgatg atgattcaat gcaaggagca tttgataacg
1201 ttccatcacc tttccgtccc cgaactcaat cgaacctctc gattcctgga tcgtcgtctc
1261 gtgtttctcc agctattgga agtgatatct atgatgatct agaattccca tcatgggttg
1321 gcgaatcggg tccagcaatt ccaagtata ttgttgatag aactgatcaa atgcgtatcg
1381 atgcaactac tcatattggg ggagttcaga ttaagcagga gtcgaagccg attaagacgg
1441 aaccaattgc tccaccacca tcataccacg agttgaacag tgtccgtgga tcgtgtgctc
1501 agaatccact tcttcgaaat ccaattgtgc caagcactaa cttcaagcca atgccactac
1561 cgggtgccta tggaaactat caaatgggtg gaataactcc aatcaattgg ctatcaacat
1621 ccaactcatc tccactgcct ggaattcaat cgtgtggaat ttagctgca cagcactg
1681 tcgcttcttc atcggtctct ccaattgatt tggaaaatct gacacttccc gatcagccac
1741 tgatggatac tatggatgtt gatgcattga tcagacatga gctgagtcaa gctggagggc
1801 agcatattca ttttgatttg taaattctct tcattttgtt tcccctgggtg ttgttcgaaa
1861 gagagatagc aaagcagcga ggagtgaaga atcttccgtc ttcatctttt caaatcccta
1921 cctacacaca ctcaacgatc atcacagcca gaccatcaat attcttccaa attttgacgt
1981 cgtaattttt ttttcagttt tttcaaaaac tctattttct attttctgtc gtttgttccc
2041 ctttctctcg tctaattcca acacattcat cccagtgaag tcgtgtaata ataataaaa
2101 atacctcttc tctctttctt cccctaagtc gaaatatcga aaaaccgttg attattacct
2161 cttttttctt gttttttttt tctctctctc tctcccgta tccaggttct tcaactctta
2221 aatgctaact ctatcccac tttttcgctg taaatttggt tcgcaatcaa aactgctaaa
2281 acacattccc caatctgtct tttttaattg aatttttcaa aaaatttgat ttcttgattt
2341 ctcttgtaat totttaattt tctctttttt tttccccctg gtagcaaatg tctagcgatt
2401 ctctttcttt ttttgtttaa ctttcacatc tggccgatcc gaatcctccg tatacacaca
2461 cacatagtaa tctacctcca aaattttact gaaagatgtg atccccctc tgtctccctc
2521 tacaaaacat tatttgtctg tttgtgtata ttgccaccac gtcgatttta aattaaaacc
2581 atcgtttttt cttctttttt actttttttt cgaaaaattt aacaacacac aaaaaaatcc
2641 ttcaaaaaat ctcaagtttta aatgggtgtg caatatatcg gatccccctc tacaccagaa
2701 cagtcttgca atttcagaga atgattttca gatttttcat atcacaggcc cctttttttt
2761 gcttggtttt ttctctacct ctctttcttt tcatctattt tctctctctc gttttctctc
2821 tgttatcctg tacattttcc ttccaattct ttctggctat ttctgatttt cgagttcata
2881 ttctctacgt ctcaactttt ctgcgcgcac gccccctttt tcgtctccct ccgcccccaa
2941 atatatttgc gactgtatga tgatgatgat gatttaataa aaatcaaatt tga

FIGURE 7B

Daf-16 protein sequence

MNDSIDDDFP PEPRGRCYTW PMQQYIQES SATIPHHHLN QHNNPYHPMH PHHQLPHMQQ
 LPQPLNLNM TTLTSSGSSV
 ASSIGGGAQC SPCASGSSTA ATNSSQQQQT VGQMLAASVP CSSSGMTLGM SLNLSQGGGP
 MPAKKKRCRK KPTDQLAQKK
 PNPWGEESYS DIIAKALESA PDGRLKLNEI YQWFS DNIPY FGERSSPEEA AGWKNSIRHN
 LSLHSR FMRI QNEGAGKSSW
 WVINPDAKPG RNP RTRERS NTIETTTKAQ LEKSRRGAKK RIKERALMGS LHSTLNGNSI
 AGSIQTISHD LYDDDSMQGA
 FDNVPSSFRP RTQSNLSIPG SSSRVSPAIG SDIYDDLEFP SWVGESVPAI PSDIVDRDQ
 MRIDATTHIG GVQIKQESKP
 IKTEPIAPPP SYHELNSVRG SCAQNPLL RN PIVPSTNFKP MPLPGAYGNY QNGGITPINW
 LSTSNSSPLP GIQSCGIVAA
 QHTVASSAL PIDLENLTLP DQPLMDTMDV DALIRHEL SQ AGGQHIHFDL

Age-1 nucleotide sequence

1 atgcatgtta acattttaca tccacaactg caaacgatgg tcgagcagtg gcaaatgcga
 61 gaacgcccac cgctggagac cgagaatggc aaaggatcgc tgctcctgga aaatgaaggt
 121 gtgcagata tcatcactat gtgtccattc ggagaagtta ttagtgtagt atttccgtgg
 181 tttcttgcaa atgtgcgaac atcgctagaa atcaagctat cagatttcaa acatcaactt
 241 ttcgaattga ttgctccgat gaagtgggga acatattccg taaagccaca ggattatgtg
 301 ttcagacagt tgaataattt cggcgaaatt gaagttatat ttaacgcaga tcaacccctg
 361 tcgaaattag agctccacgg cactttccca atgctttttc tctaccaacc tgatggaata
 421 aacagggata aagaattaat gagtgatata agtcattgtc taggatactc actggataaa
 481 ctggaagaga gcctcgatga ggaactccgt caatttcgtg cttctctctg ggctcgtacg
 541 aagaaaacgt gcttgacacg tggacttgag ggtaccagtc actacgcgtt ccccgaaaga
 601 cagtacttgt gtgttggtga atcggtcccc aaagatttgg aatcaaaagt caagtctgcc
 661 aagctgagtt atcagatgtt ttggagaaaa cgtaaagcgg aaatcaatgg agtttgcgag
 721 aaaatgatga agattcaa atgaattcaat ccgaacgaaa ctccgaaatc tctgcttcac
 781 acgtttctct acgaaatgcg aaaattggat gtatacgata ccgatgatcc tgcagatgaa
 841 ggatggtttc ttcaattggc tggacgtacc acgtttgtta caaatccaga tgtcaaactt
 901 acgtcttatg atggtgtccg ttcggaactg gaaagctatc gatgccctgg attcgttggt
 961 cgccgacaat cactagtcct caaagactat tgtcgcccaa aaccactcta cgaaccacat
 1021 tatgtgagag cacacgaacg aaaacttgct ctagacgtgc tcagcgtgtc tatagatagc
 1081 acaccaaacc agagcaagaa cagtgcacatg gttatgactg attttcgtcc gacagcttca
 1141 ctcaaacaag ttacactttg ggaccttgac gcgaatctta tgatacggcc tgtgaatatt
 1201 tctggattcg atttcccggc cgacgtggat atgtacgttc gaatcgaaat cagtgtatat
 1261 gtggggacac tgacgtggc atcaaaatct acaacaaaag tgaatgctca atttgcaaaa
 1321 tggataaagg aaatgtacac ttttgatcta tacatgaagg atatgccacc atctgcagta
 1381 ctcagcattc gtgttttgta cggaaaagtg aaattaaaaa gtgaagaatt cgaagttggt
 1441 tgggtaaata tgtccctaac cgattggaga gatgaactac gacaaggaca atttttatct
 1501 catctgtggg ctcctgaacc gactgccaat cgtagtagga tcggagaaaa tggagcaagg
 1561 ataggcacca acgcagcggg tacaattgaa atctcaagtt atggtggtag agttcgaatg
 1621 ccgagtcaag gacaatacac atatctcgtc aagcaccgaa gtacttggac ggaaactttg
 1681 aatattatgg gtgatgacta tgagtcgtgt atcagagatc caggatataa gaagcttcag
 1741 atgcttgatc agaagcatga atctggaatt gtattagagg aagatgaaca acgtcatgtc
 1801 tggatgtgga ggagatacat tcaaaagcag gagcctgatt tgctcattgt gctctccgaa
 1861 ctgcgatttg tgtggactga tcgtgagaac ttttccgagc tctatgtgat gcttgaaaaa
 1921 tggaaaccgc cgagtgtggc agccgcgttg actttgcttg gaaaacgttg cagggatcgt
 1981 gtgattcgaa agtttgcagt ggagaagttg aatgagcagc tgagcccggt cacattccat
 2041 cttttcatat tgcctctcat acaggcgttg aagtacgaac cgcgtgctca atcggaagtt
 2101 ggaatgatgc tcttgactag agctctctgc gattatcgaa ttggacatcg acttttctgg
 2161 ctgctccgtg cagagattgc tcgtttgaga gattgtgatc tgaaaagtga agaatactgc

FIGURE 7C

2221 cgtatctcac ttctgatgga agcttacctc cgtggaaatg aagagcacat caagatcatc
 2281 acccgacaag ttgacatggt tgatgagctc acacgaatca gcactcttgt caaaggaatg
 2341 ccaaaagatg ttgctacgat gaaactgctg gacgagcttc gatcgattag tcataaaatg
 2401 gaaaatatgg attctccact ggatcctgtg tacaaactgg gtgaaatgat aatcgacaaa
 2461 gccatcgtcc taggaagtgc aaaacgtccg ttaatgcttc actggaagaa caaaaatcca
 2521 aagagtgacc tgcaccttcc gttctgtgca atgatcttca agaatggaga cgatcttcgc
 2581 caggacatgc ttgttcttca agttctcgaa gttatggata acatctggaa ggctgcaaac
 2641 attgattgct gtttgaacct gtacgcagtt cttccaatgg gagaaatgat tggaattatt
 2701 gaagttgtgc ctaattgtaa aacaatattc gagattcaag ttggaacagg attcatgaat
 2761 acagcagttc ggagtattga tccttcgttt atgaataagt ggattcggaa acaatgcgga
 2821 attgaagatg aaaagaagaa aagcaaaaag gactctacga aaaatcccat cgaaaagaag
 2881 attgataata ctcaagccat gaagaaatat tttgaaagtg tcgatcgatt cctatactcg
 2941 tgtgttggat attcagttgc cacgtacata atgggaatca aggatcgatc cagtataat
 3001 ctgatgctca ctgaagatgg aaaatatctc cacattgatt tcggtcacat tttgggacac
 3061 ggaaagacca aacttgggat ccagcgagat cgtcaaccgt ttattctaac cgaacacttt
 3121 atgacagtga ttcgatcggg taaatctgtg gatggaaatt cgcagagctt acaaaaattc
 3181 aaaacgttat gcgtcgaagc ctacgaagta atgtggaata atcgagattt gttcgtttcc
 3241 ttgttcacct tgatgctcgg aatggagttg cctgagctgt cgacgaaagc ggatttggat
 3301 catttgaaga aaacctctct ctgcaatgga gaaagcaaag aagaagcgag aaagtttttc
 3361 gctggaatct acgaagaagc cttcaatgga tcatggtcta ccaaacgaa ttggctcttc
 3421 cagcagtc aacactactg a

Age-1 protein sequence

MHVNILHPQL QTMVEQWQMR ERPSLETENG KGSLLLENEG VADIITMCPF GEVISVFPW
 FLANVRTSLE IKLSDFKHQL
 FELIAPMKWG TYSVKPQDYV FRQLNNFGEI EVIFNDQPL SKLELHGTFP MLFLYQPDGI
 NRDKELMSDI SHCLGYSLDK
 LEESLDEELR QFRASLWART KKTCLTRGLE GTSHYAFPEE QYLCVGESCP KDLESKVKAA
 KLSYQMFWRK RKAERINGVCE
 KMMKIQIEFN PNETPKSL LH TFLYEMRKLD VYDTPADE GWFLQLAGRT TSVTNPDVKL
 TSYDGVRSSEL ESYRCPGFVV
 RRQSLVLKDY CRPKPLYEPH YVRAHERKLA LDVLSVSIDS TPKQSKNSDM VMTDFRPTAS
 LKQVSLWDLN ANLMIRPVNI
 SGFDFFPADVD MYVRIEFSVY VGTTLTASKS TTKVNAQFAK WNKEMYTFDL YMKDMPPSAV
 LSIRVLYGKV KLKSEEFEEVG
 WVNMSLTDRW DELRQGQFLF HLWAPPTAN RSRIGENGAR IGTNAAVTIE ISSYGGVRM
 PSQGQYTYLV KHRSTWTETL
 NIMGDDYESC IRDPGYKKLQ MLVKKHESGI VLEEDEQRHV WMWRRYIQKQ EPDLLIVLSE
 LAFVWTDREN FSLEYVMLEK
 WKPPSVAAAL TLLGKRCTDR VIRKFAVEKL NEQLSPVTFH LFILPLIQAL KYEPRAQSEV
 GMLLTLRALC DYRIGHRLFW
 LLRAEIALRL DCDLKSEFYR RISLLMEAYL RGNEEHKII TRQVDMVDEL TRISTLVKGM
 PKDVATMKLR DELRSISHKM
 ENMDSPLDPV YKLGEIIDK AIVLGSARKP LMLHWKNKNP KSDLHLPFCA MIFKNGDDLK
 QDMLVLQVLE VMDNIWKAAN
 IDCCLNPHYAV LPMGEMIGII EVVPNCKTIF EIQVGTGFMN TAVRSIDPSF MNKWIRKQCG
 IEDEKKKSKK DSTKNPIEKK
 IDNTQAMKKY FESVDRFLYS CVGYSVATYI MGIKDRHSDN LMLTEDGKYF HIDFGHILGH
 GKTKLGIQRD RQPFILTEHF
 MTVIRSGKSV DGNSHELQKF KTLCEVAYEV MWNNRDLFVS LFTLMLGMEL PELSTKADLD
 HLKKTLCFNG ESKEEARKFF
 AGIYEEAFNG SWSTKTNWLF HAVKHY